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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,955	09/22/2003	James Y.J. Chung	PO7946/MD02-19	1214
157 75	90 01/27/2006		EXAMINER	
BAYER MATERIAL SCIENCE LLC			SZEKELY, PETER A	
100 BAYER RO PITTSBURGH,			ART UNIT	PAPER NUMBER
	,		1714	
			DATE MAILED: 01/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/667,955	CHUNG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Peter Szekely	. 1714				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC, 36(a). In no event, however, may a reputil apply and will expire SIX (6) MONTI, cause the application to become ABA	ATION. bly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12/15	<u>5/05</u> .					
	This action is FINAL . 2b) This action is non-final.					
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closed in accordance with the practice under E	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-10 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
	6) Claim(s) <u>1-3 and 5-10</u> is/are rejected.					
 7)⊠ Claim(s) 4 is/are objected to. 8)□ Claim(s) are subject to restriction and/or 	r election requirement					
	oloolon roquilomoni.					
Application Papers		•				
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
,—						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	Λ □ 1-42 2	mmon/(PTO 412)				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Other:						
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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- 2. Claims 1-3 and 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ross et al. 6,610,770, in view of Beall et al. 5,804,613.
- 3. Both references have been discussed previously. When a patent describes optional additives, it means that it describes a composition with and without said additives. The rejection is maintained.

Response to Arguments

4. Applicant's arguments filed 12/15/05 have been fully considered but they are not persuasive. Ross et al. might list a large number of polymers, but they claim only seven and polycarbonates are among these seven (claim 4). The organic materials are not claimed as optional materials (claim 1) and carboxylic acids are specifically claimed (claim 3) as one out of two. Both materials are members of Markush groups, which means that they are individually claimed. Citric acid is part of a long list but it is clearly named. The rejection is made for obviousness only because Ross et al. fails to specifically describe the particle size of the nanoclay, however the claimed particle size is shown by Beall et al., who also display polycarbonate and carboxylic acid containing monomers, and it is a particle size, which is not uncommon in smectite clays. There is no showing of unexpected results because of the particle size. The rejection is maintained.

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Allowable Subject Matter

5. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Szekely whose telephone number is (571) 272-1124. The examiner can normally be reached on 7:00 a.m.-5:30 p.m. Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Peter Szekely Primary Examiner Art Unit 1714

P.S. 1/23/06